

# **Lavon Lake Route Study**

**FM 1378 to SH 78**

## **Public Meeting #2**

**Wylie East High School Auditorium**

**May 19, 2010**



**Lavon Lake Route Study**

# Public Meeting Agenda

- Project Definition
- Project Need and Purpose
- Route Study Process
- Development and Analysis of DRAFT Technically Feasible Alignment
- Project Schedule
- Questions and Comments



# Project Definition

## Route Study

### **When was the project initiated?**

- As a result of the 2007 Bond Election, voters approved funding for a route study across Lavon Lake.

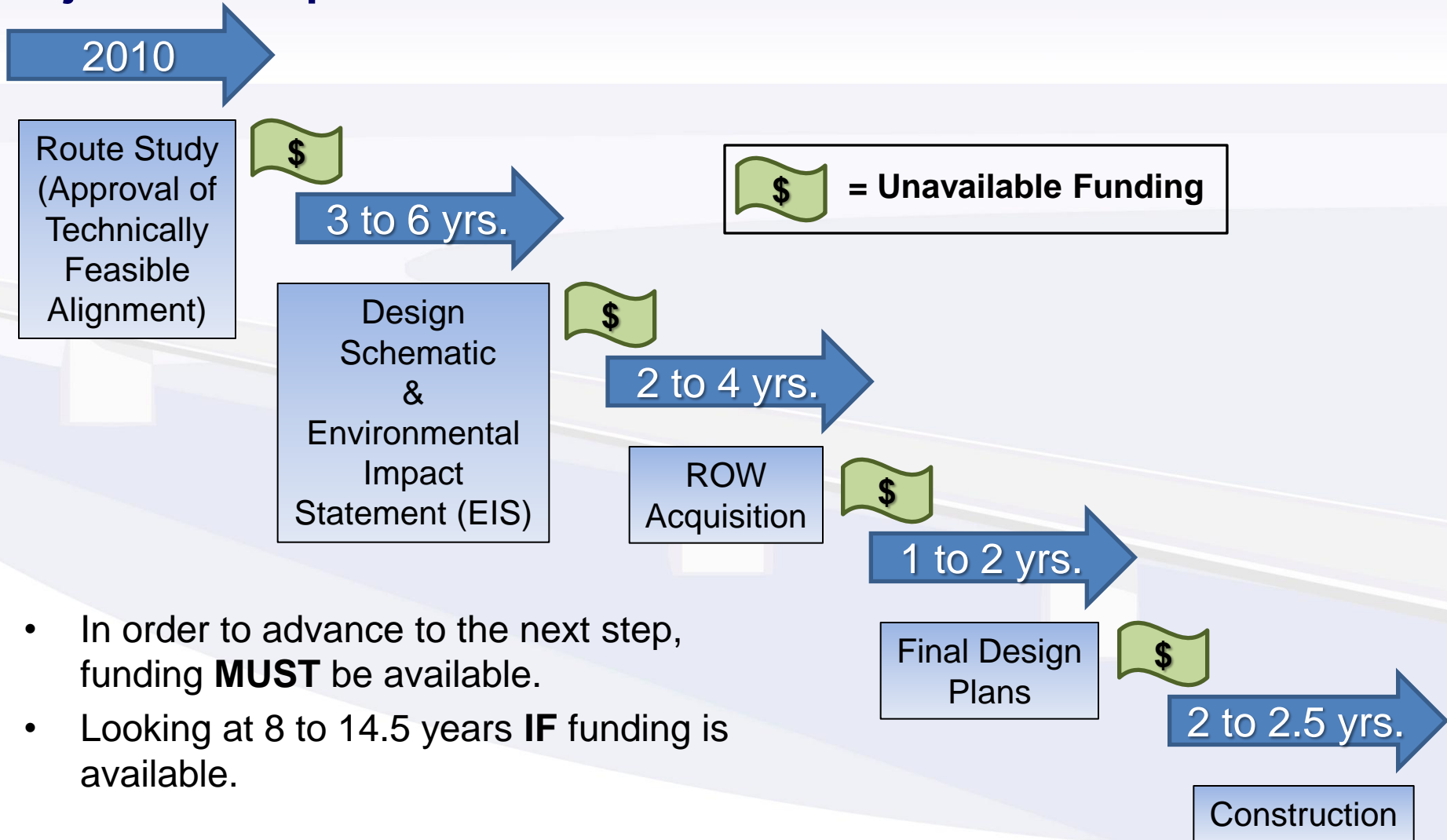
### **What is a route study?**

- The route study develops and evaluates various geometric alternatives to determine the technically feasible alignment for further study and project development.



# Project Definition

## Project Development

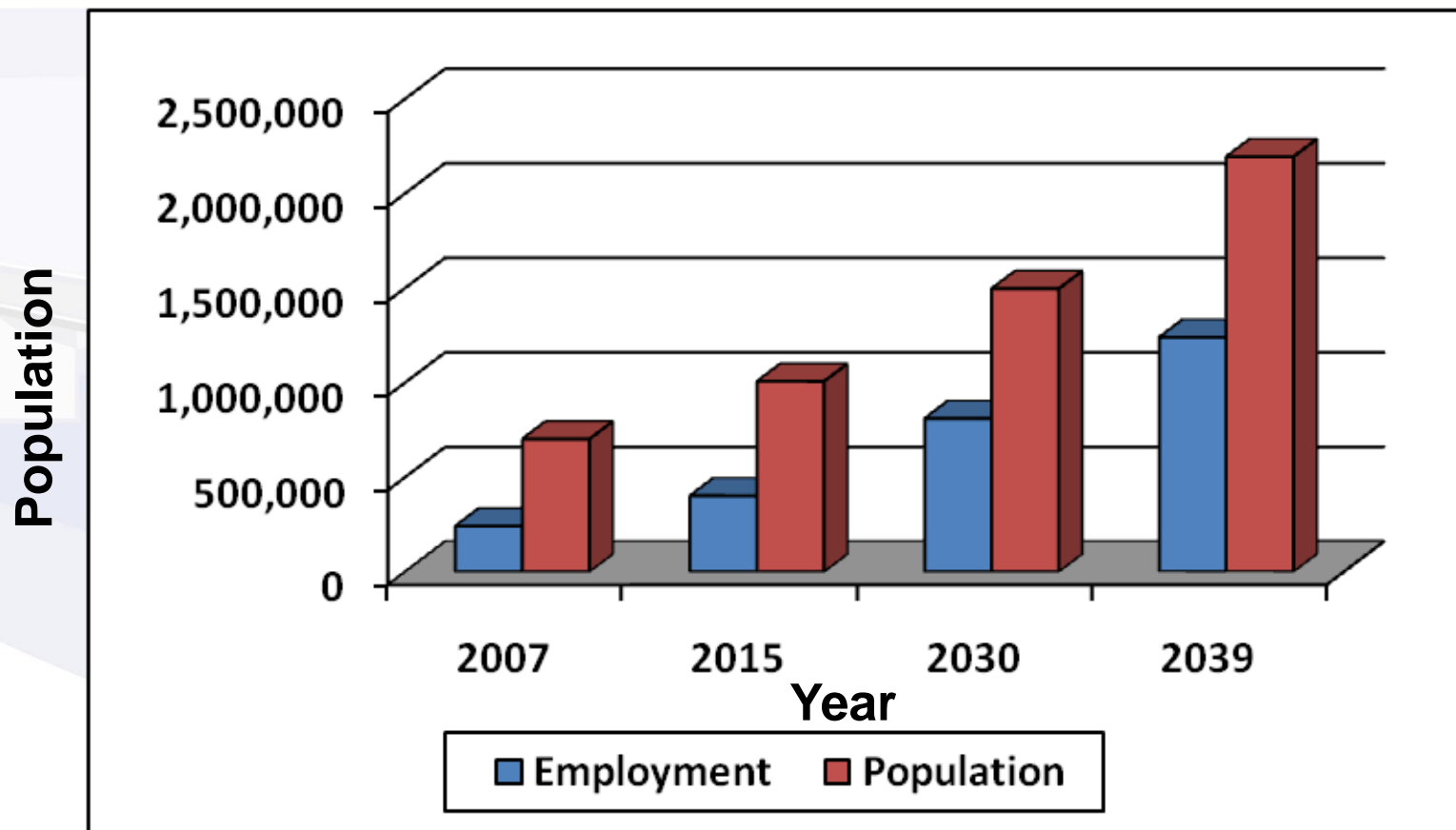


# Lavon Lake Route Study

# Project Need and Purpose

## Collin County Employment and Population Growth

From Collin County Mobility Plan 2007 Update



- 2030 Design Year
- 2039 Ultimate



# Lavon Lake Route Study

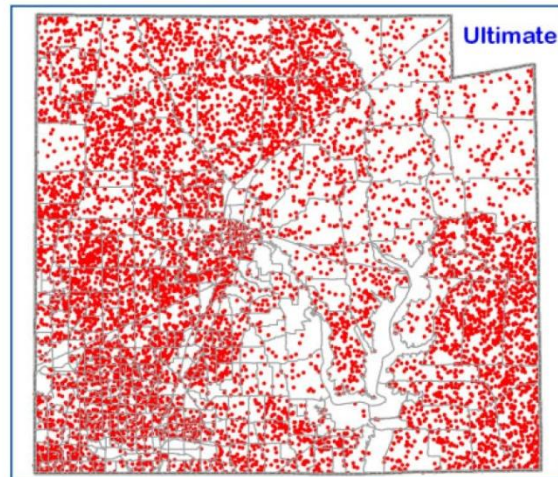
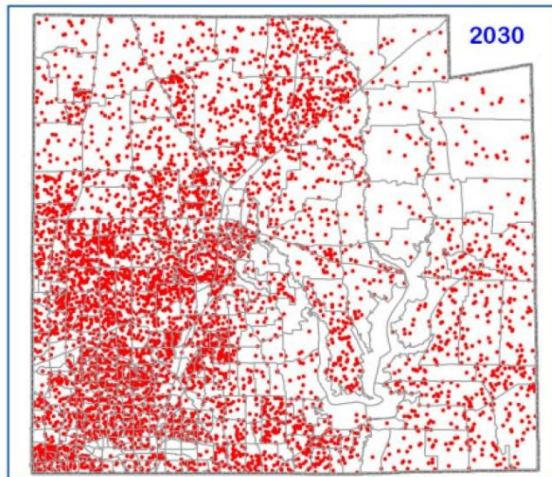
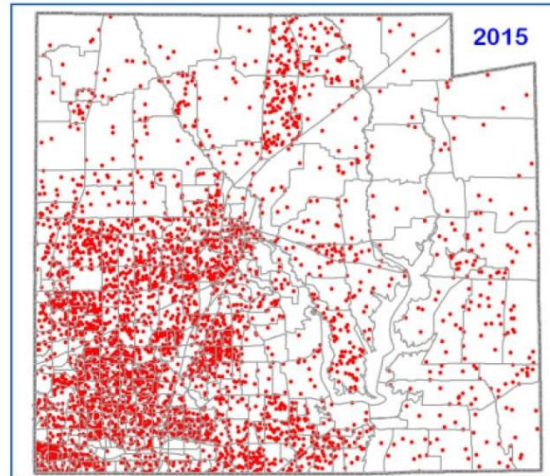
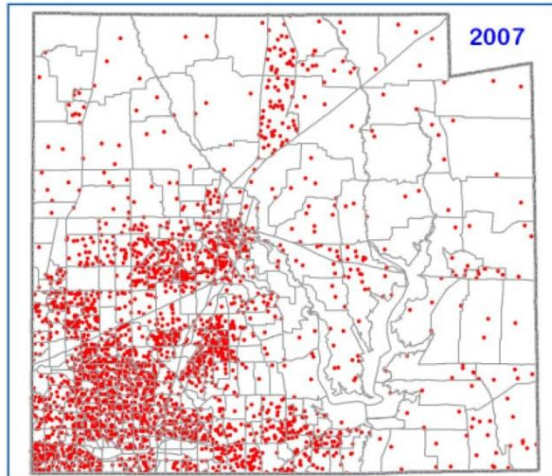
Source: [www.co.collin.tx.us](http://www.co.collin.tx.us)



# Project Need and Purpose

## Collin County Population Growth

From Collin County Mobility Plan 2007 Update



- Ultimate = 2039
- 1 Dot = 250 Residents



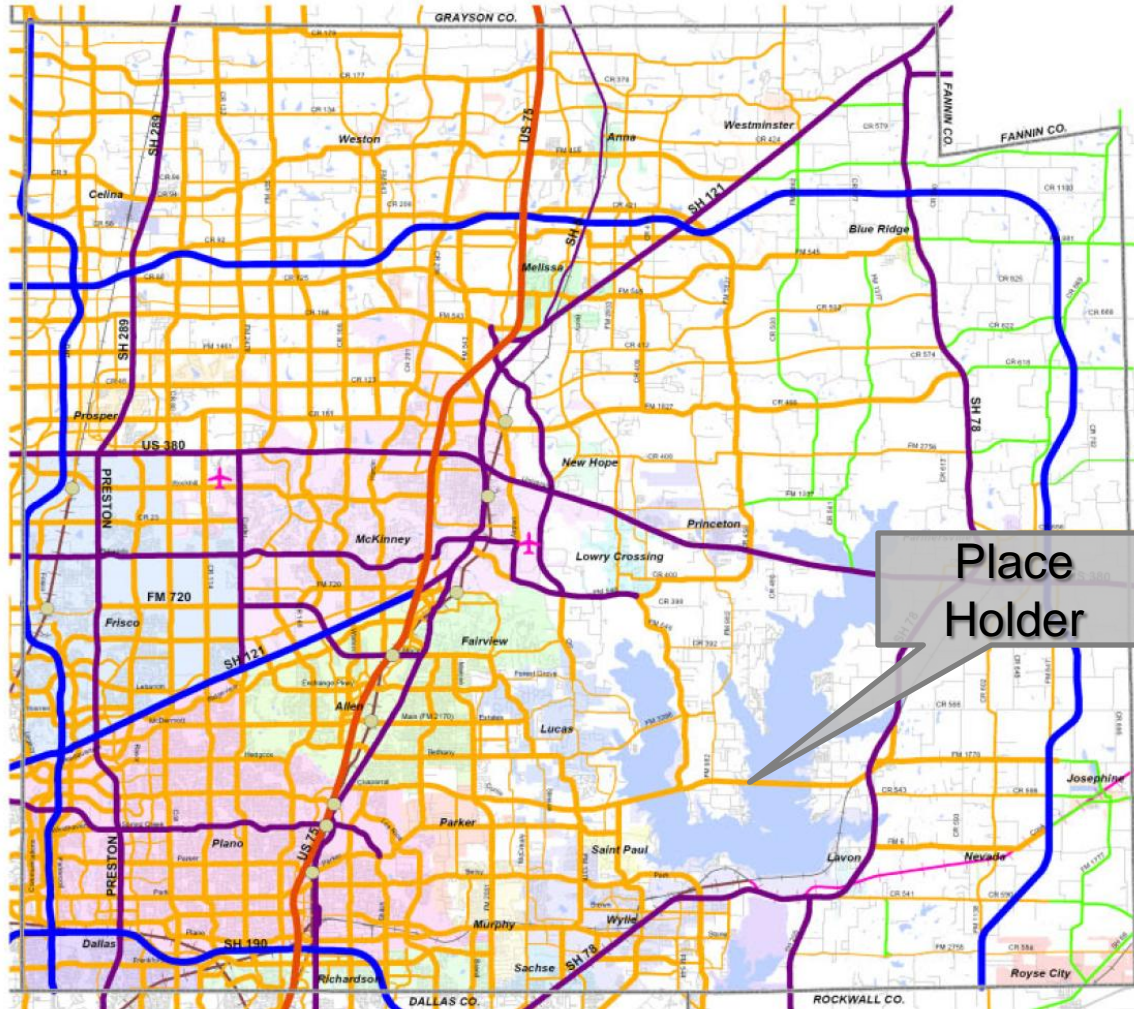
# Lavon Lake Route Study

Source: [www.co.collin.tx.us](http://www.co.collin.tx.us)

# Project Need and Purpose

## Collin County Thoroughfare Plan

From Collin County Mobility Plan 2007 Update



Place  
Holder



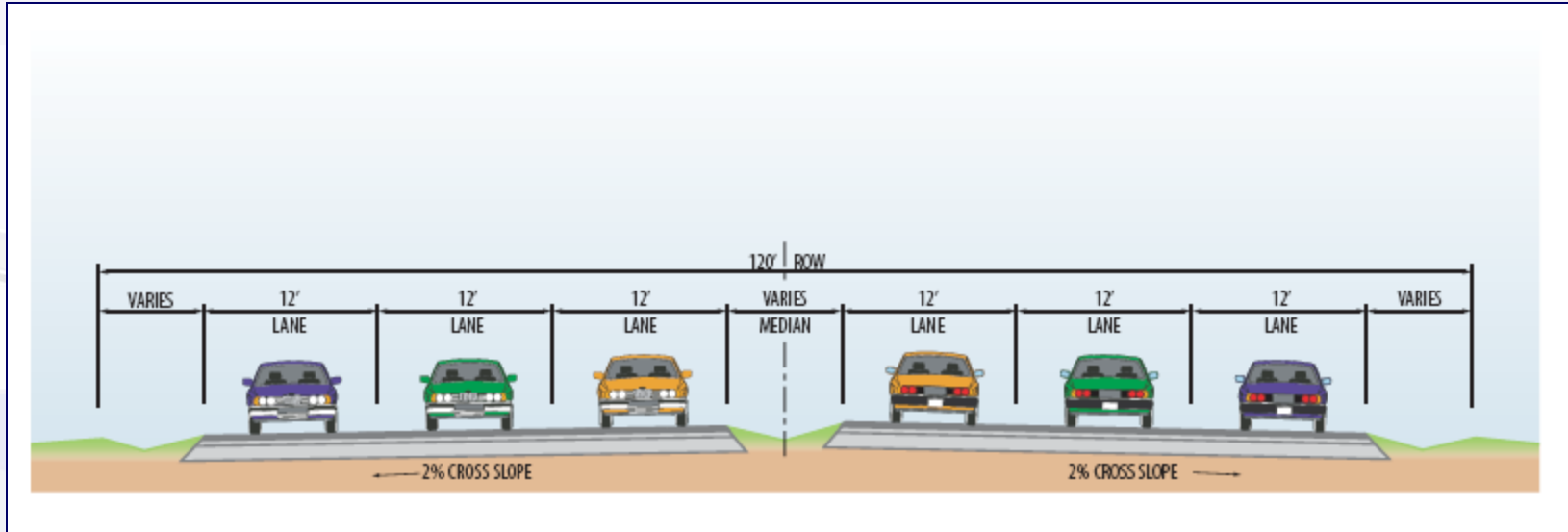
# Lavon Lake Route Study

Source: [www.co.collin.tx.us](http://www.co.collin.tx.us)



# Project Definition

## Proposed Typical Section



## Major Arterial Six Lane Divided with Median (120' ROW)





# Project Need and Purpose

- Identify a technically feasible alignment to accommodate the growing east-west mobility needs resulting from population growth and development.
- Provides direct access to/from US 75, the peninsula, and the future Outer Loop for greater mobility and emergency access.
- Provide an alternate east-west route other than US 380 and SH 78 in southeastern Collin County to mitigate for congestion.



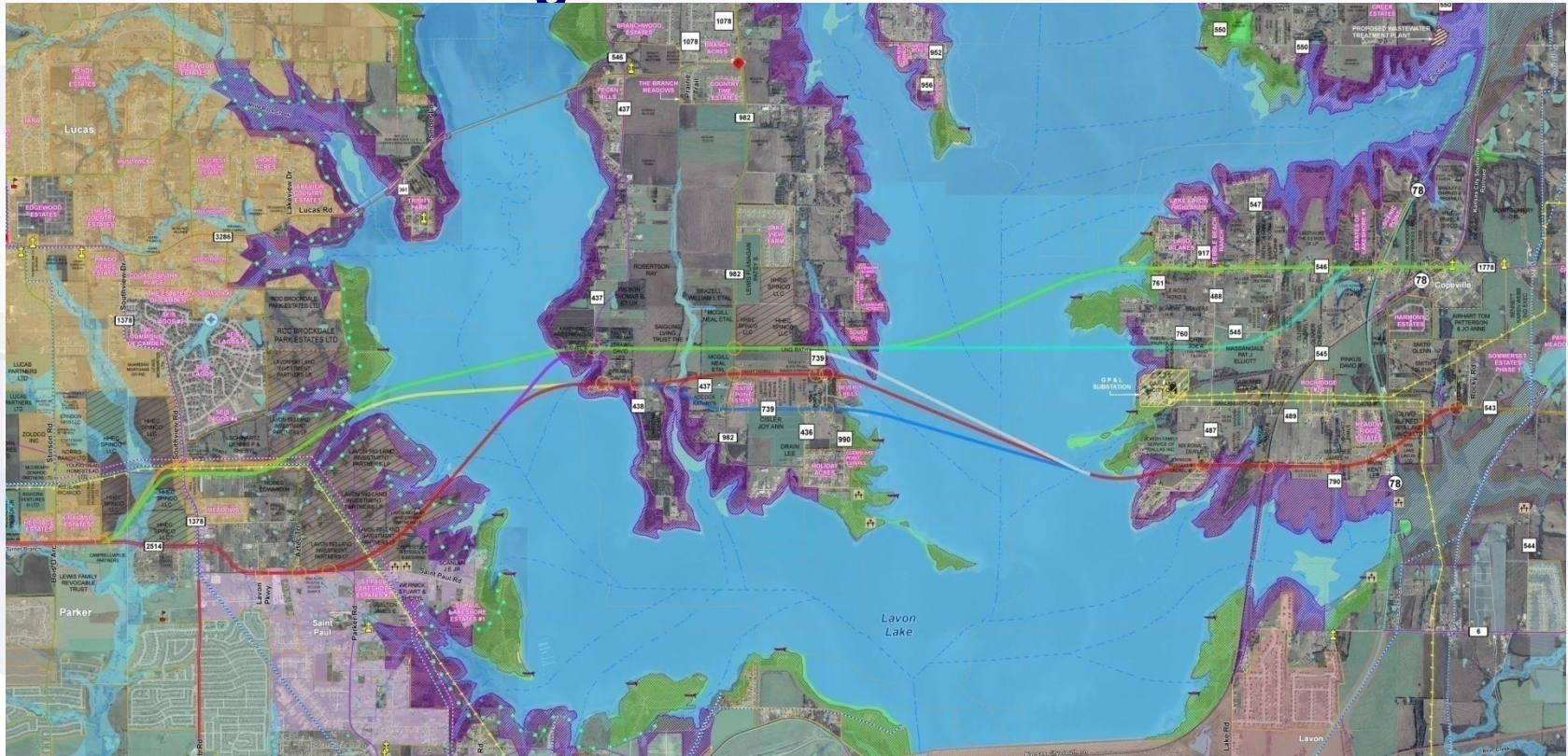
# Route Study Process

- **Data Assembly and Review**
  - Develop Environmental Constraints Map
  - Coordination with Cities and Agencies
- **Develop Alternative Alignments**
- **Public Meeting 1**
  - Initial alternative alignments
- **Refined/Evaluated Alternative Alignments**
- **Public Meeting 2**
  - Alternative alignment evaluation and DRAFT Technically Feasible Alignment
- **Public Hearing (Recommendation to Commissioners Court)**
  - Request approval of the Technically Feasible Alignment
- **Develop Final Report**



# Alternative Alignment Development

## Initial Alternative Alignments



- Avoid and/or minimize impacts to environmental features.
- Meets geometric design criteria.
- Minimizes impacts to the number of parcels and homes affected.
- Leverage existing and/or future roadway networks.

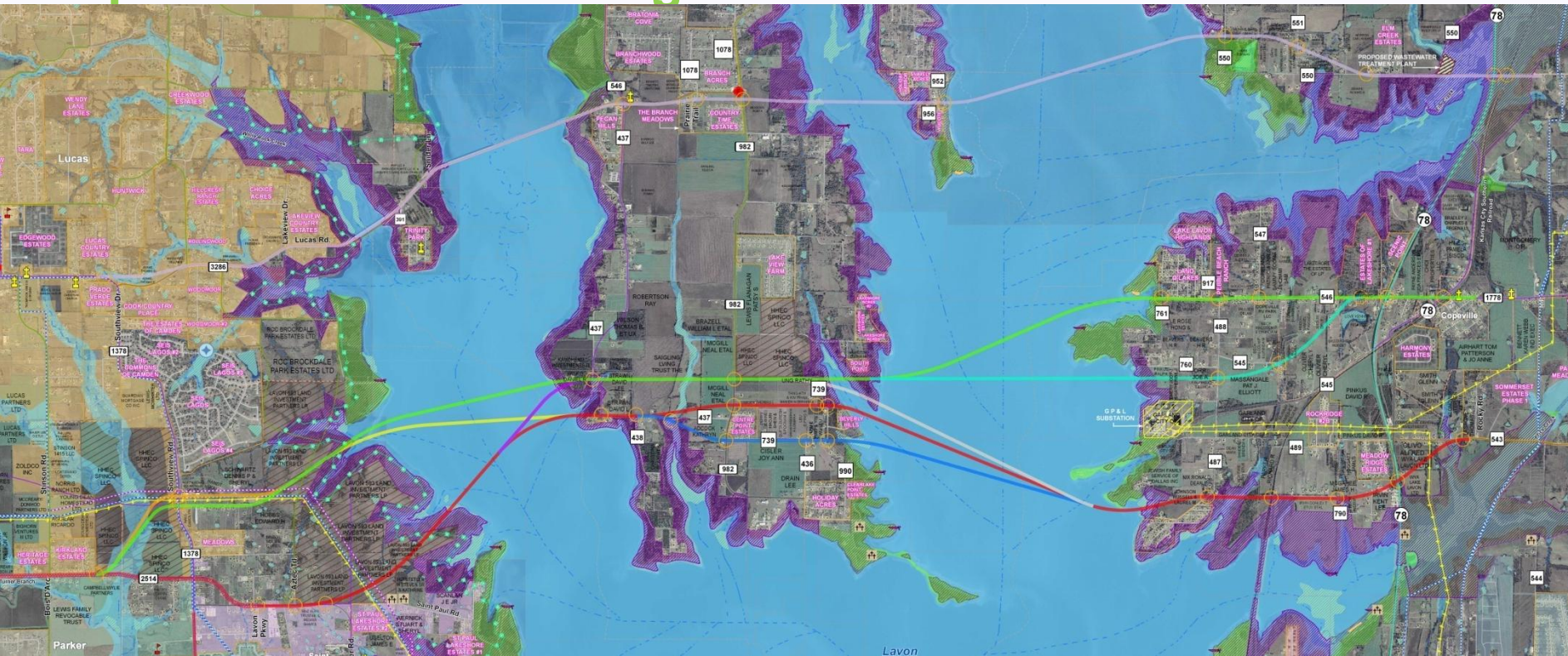


# Lavon Lake Route Study



# Alternative Alignment Development

## Updated Alternative Alignments



- Based upon public input at Public Meeting #1, the purple alignment was developed and evaluated.



# Lavon Lake Route Study



# Alternatives Evaluation Matrix

Category	Criteria	Build Alternatives			Criteria Notes
		North (Purple Alignment)	Middle (Green Alignment)	South (Red Alignment)	
Enhanced Mobility and Safety	Accessibility	++	++	++	Provides direct access to/from US 75, the peninsula, and the future Outer Loop.
	Safety	++	++	++	Meets design criteria. Takes skew angles and the number of intersections into account.
Cost Effectiveness	Construction Cost	--	--	-	Total project roadway/bridge length to develop order of magnitude "planning level" cost estimates.
	ROW Acquisition	--	--	-	Number of parcels and owners impacted to develop order of magnitude "planning level" cost estimates.
	Utilities and Infrastructure	-	-	-	Impacts to major utilities and infrastructure.
Engineering Feasibility	Compatibility with Other Projects	+	+	++	Compliments City/County Thoroughfare Plans along with ongoing projects for desirable connectivity.
Public Input	Public Input	+	-	-	Comments from the Public Meeting.
Environmental Features	Socio-Economic and Neighborhood	--	--	--	Impacts to neighborhoods along with potential impacts to parks and/or Corps of Engineers Recreation Areas.
	Noise Impacts	--	--	--	Impacts to adjacent residences, schools, hospitals, parks and other sensitive noise receptors within 500' of ROW.
	Natural Impacts	--	-	-	Impacts to streams, floodplains, and agricultural/grazing areas.
	Cultural Impacts	--	-	-	Impacts to known cemeteries, potential historic sites, and archeological sites.
	Hazardous Materials	0	0	0	No impacts to known Hazmat sites.

  Denotes: Difference in Ratings amongst Build Alternatives

## Key to Ratings:

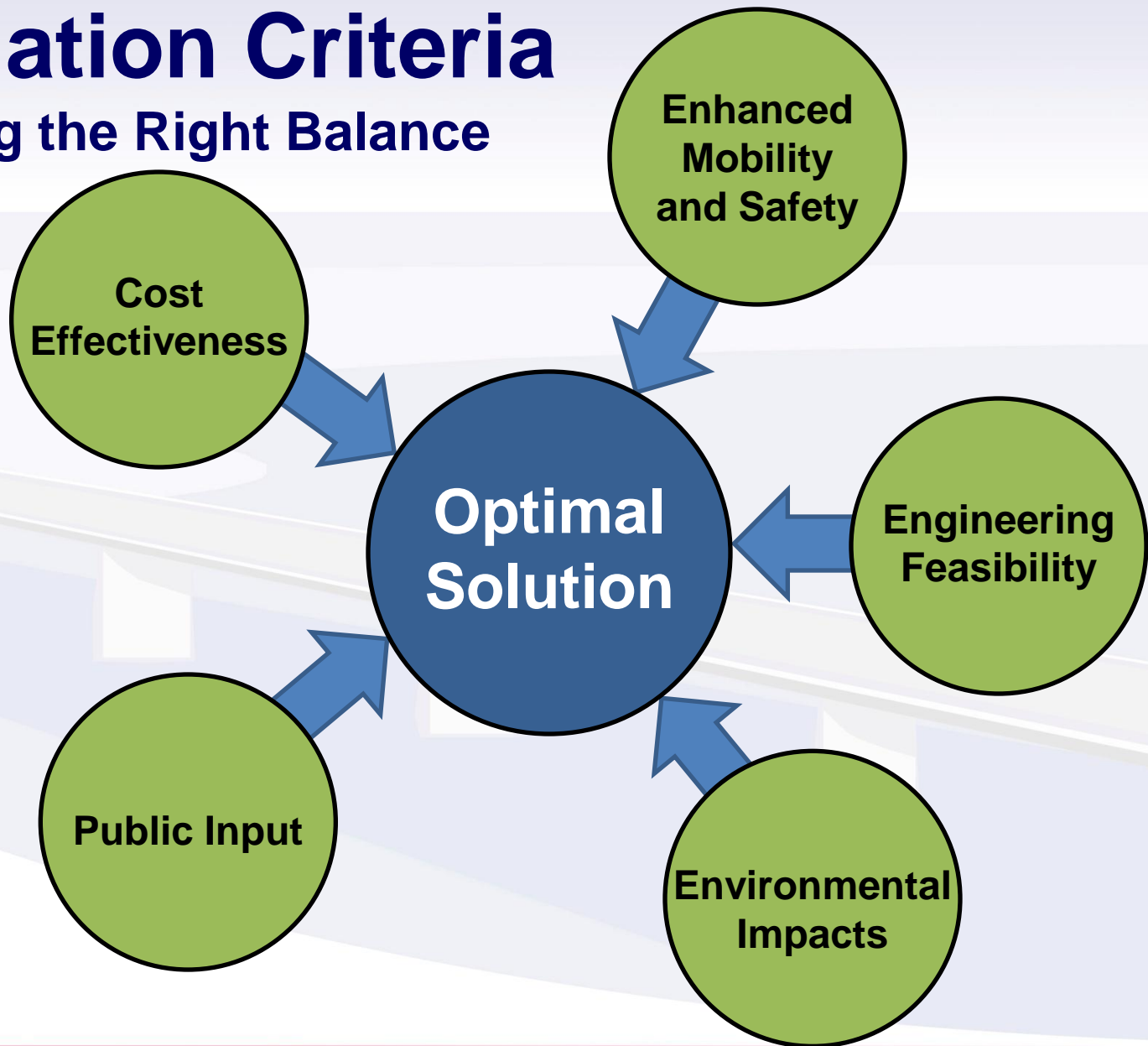
Significant Negative Effect	Some Negative Effect	No Effect, Neutral	Some Positive Effect	Significant Positive Effect
--	-	0	+	++



# Lavon Lake Route Study

# Evaluation Criteria

Achieving the Right Balance



## Lavon Lake Route Study

# Alternative Alignment Development

## DRAFT Technically Feasible Alignment



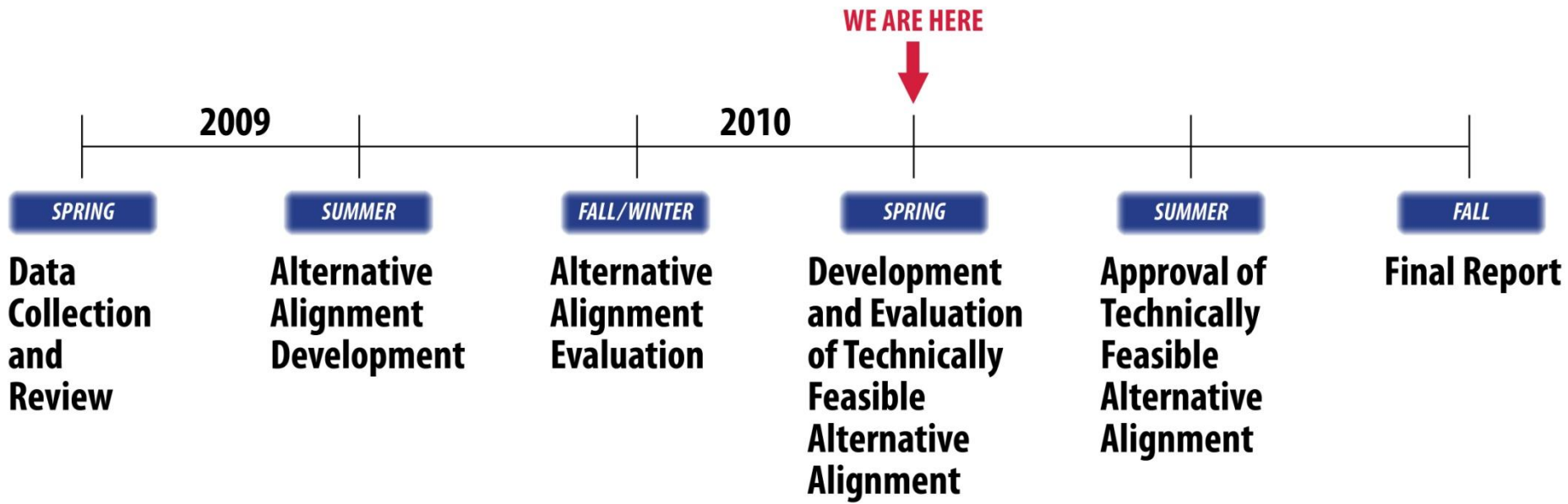
- Proposed “Optimal Solution”.
- Geometric refinements may occur through subsequent project development (design schematic, ROW acquisition, and final design)
- Contingent upon Commissioners Court approval.



# Lavon Lake Route Study



# Project Schedule



Dates are approximate and subject to change based on further public input and developments.



## Lavon Lake Route Study



# Public Involvement Process

## How to Get Involved

- Attend Open House/  
Public Meetings
- Mark your comments or  
suggestions directly  
on the maps
- Submit comment cards  
today or mail to the study team
- Contact the County for information  
or visit [www.co.collin.tx.us](http://www.co.collin.tx.us)



## Lavon Lake Route Study

# Questions and Comments

- Speak at the Public Meeting
  - Speaker cards available at sign-in desk
  - Please limit your Questions/Comments to 3 minutes
- No responses will be given tonight
- All verbal and written Questions/Comments received from the Public Meeting will be addressed in the Public Meeting Summary
  - Written Questions/Comments must be postmarked by June 2, 2010 for inclusion into the Public Meeting Summary

